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Waste Site Reclassification Form

Date Submitted: 9/7/1999	**Operable Unit(s):** 200-CW-2	**Control Number:** 99-080
Originator: B. H. Ford	**Waste Site ID:** UPR-200-W-15	
Phone: 372-9176	**Type of Reclassification Action:**	
	Rejected ◉	
	Closed-Out ○	
	No Action ○	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The site is an unplanned release associated with the 207-S Retention Basin and the 216-S-17 Pond. In October 1952, a steam coil failure in the REDOX D-12 Waste Concentrator caused gross contamination of process cooling water, the 207-S Retention Basin, and the "swamp area outside of the 200 West Area". Measurements taken of dry sand at the periphery of the pond were as high as 80 millirads/hour (reported in the original document as "mr/hr").

Basis for reclassification:

This site is recognized as an unplanned release unit that requires cleanup action. The contamination from this release is contained within the 207-S Basin and 216-S-17 Pond. This release has been consolidated with the 207-S Retention Basin and will be dispositioned with that site. Information regarding this release will also be used as supporting descriptive information to the 216-S-17 Pond.

BRYAN L. FOLEY	Bryan L. Foley	1/24/00
DOE Project Manager	Signature	Date
Ecology Project Manager	Signature	Date
Douglas R. Sherwood	Douglas R. Sherwood	1/25/00
EPA Project Manager	Signature	Date

Waste Information Data System
General Summary Report

10/7/1999

Site Code: UPR-200-W-15 **Site Classification:** Accepted

Site Names:	UPR-200-W-15, Liquid Release from REDOX to 207-S and 216-S-17 Pond, UN-200-W-15		
Site Type:	Unplanned Release	**Start Date:**	1952
Status:	Inactive	**End Date:**	1952
Operable Unit:	200-CW-2	**Coordinates:**	
Hanford Area:	200W	(E) 586975.5	
		(N) 133893.391	
		Washington State Plane	

Site Description: The site is an unplanned release associated with the 207-S Retention Basin and the 216-S-17 Pond (REDOX Swamp). Both the pond and the basin are surface stabilized and posted as "Underground Radioactive Material".Site UPR-200-W-15 has been consolidated with the 207-S Retention Basin.

Location Description: The 207-S Retention Basin is located approximately 366 meters (1,200 feet) due west of the 222-S Laboratory in the 200 West Area. The 216-S-17 Pond is located southwest of the 207-S Retention Basin, outside the 200 West fence.

Associated Structures: The release is associated with the REDOX facility (202-S) , the 207-S Retention Basin, and the 216-S-17 Pond.

Site Comment: The 216-S-17 Pond was the only pond receiving REDOX process cooling water when the release occurred. The pond was used from 1951 to 1954 and was taken out of service because it exceeded contamination limits.

The 216-S-17 Pond was interim stabilized in 1984 and posted with "Underground Radioactive Material" signs. The 207-S Retention Basin was stabilized in 1993 and posted with "Underground Radioactive Material" signs.

The October 1952 monthly report does not state when the steam coil started leaking. However, it does state that REDOX was shut down on October 9, 1952 to replace the coil.

Release Description: In October 1952, a steam coil failure in the REDOX D-12 Waste Concentrator caused gross contamination of process cooling water, the 207-S Retention Basin, and the "swamp area outside of the 200 West Area". A dike was constructed to maintain a constant water level.

References:

1. R. W. McCullugh and J. R. Cartmell, 8/68, Chronological Record of Significant Events in Separations Operations, ARH-780.
2. R. D. Stenner, K. H. Cramer, D. A. Lamar, 10/88, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford, PNL-6456 Vol 1,2,3.
3. 2/89, Preliminary Operable Units Designation Project, WHC-EP-0216.
4. Deford, D.H., R.W. Carpenter, 1995, S-Plant Aggregate Area Management Study Technical Baseline Report, BHI-00176.
5. Compiled by Department Managers, 11/20/52, Hanford Works Monthly Report for October 1952, HW-26047-DEL.

Regulatory Information:

Programmatic Responsibility

DOE Program:	EM-40	**Confirmed By Program:**	Yes
DOE Division:	RPD - Restoration Projects Division		
Responsible Contractor/Subcontractor:	BHI - Bechtel Hanford, Inc.		

Site Evaluation

Solid Waste Management Unit: No

TPA Waste Management Unit Type: Unplanned Release Unit

This Site Was Consolidated With:

207-S, REDOX Retention Basin, 207-S Retention Basin

Reason: Within Boundary Of Larger Site

Permitting

RCRA Part A Permit:	No	**216/218 Permit:**	No
RCRA Part B Permit:	No	**NPDES:**	No
Closure Plan:	No	**State Waste Discharge Permit:**	No
TSD Number:		**Septic Permit:**	No
Air Operating Permit:	No	**Inert Landfill:**	No

Air Operating Permit Number(s):

Tri-Party Agreement

Lead Regulatory Agency: EPA

Unit Category: CERCLA Past Practice (CPP)

TPA Appendix: C

Remediation and Closure

Decision Document:

Decision Document Status:

Remediation Design Group:

Closure Document:

Closure Type:

Post Closure Requirements:

Residual Waste:

Waste Information:

Type: Steam Condensate

Category: Radioactive

Physical State: Liquid **Reported Date:** 1952

Start Date: 1952 **End Date:** 1952

Waste Obscured: Soil Overburden

Description: According to the October 1952 *monthly report*, fission product activity was detected in the 207-S Retention Basin and at the edge of the 216-S-17 Pond. Measurements taken of dry sand at the periphery of the pond were as high as 2200 millireps/hour and 80 millirads/hour (reported in the original document as "mr/hr"). It is not clear why the two separate values were reported.

The acronym "rep" stands for Roentgen equivalent physical. One rep equals 95 ergs/gram (0.0095 joules/kilogram). One rep is roughly equivalent to 1 rad.

References:

1. Ray Johnson, 11/8/91, *Comments on the 1992 Hanford Site Waste Management Units Report Draft.*
2. Compiled by Department Managers, 11/20/52, Hanford Works Monthly Report for October 1952, HW-26047-DEL.

Images:

Date Taken: 3/4/98

Pathname: \\bhl002\ead-img\200W\1461\1461_01.JPG

Description: This photo shows the backfilled and stabilized 207-S basin.